

Preliminary Amendment
Attorney Docket No. Q68885

Please delete the table on page 22 and replace it with the following new table:

| | | | | | | | | |
|-----|--------------|--------------|---|--|-----------------------------|----------|----------|----------|
| 167 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ O | (R)-2-methylhexyl | hydrogen | α | α |
| 168 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ O | (S)-2-methylhexyl | hydrogen | α | α |
| 169 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ O | (R)-1-methyl-3-hexynyl | hydrogen | α | α |
| 170 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ O | (S)-1-methyl-3-hexynyl | hydrogen | α | α |
| 171 | β -Cl | (Z)CH=CH | 0 | S(CH ₂) ₂ S | cyclohexyl | methyl | α | α |
| 172 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ S | cyclopentyl | hydrogen | α | β |
| 173 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ S | (R)-2-methylhexyl | hydrogen | α | α |
| 174 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ S | (S)-2-methylhexyl | hydrogen | α | α |
| 175 | β -Cl | (E)CH=CH | 0 | S(O)(CH ₂) ₂ S(O) | (R)-2-methylhexyl | hydrogen | α | α |
| 176 | β -Cl | (E)CH=CH | 0 | S(O)(CH ₂) ₂ S(O) | (S)-2-methylhexyl | hydrogen | α | α |
| 177 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ S | (R)-1-methyl-3-hexynyl | hydrogen | α | α |
| 178 | β -Cl | (E)CH=CH | 0 | S(CH ₂) ₂ S | (S)-1-methyl-3-hexynyl | hydrogen | α | α |
| 179 | α -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cyclohexyl | methyl | α | α |
| 180 | α -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cyclohexyl | hydrogen | α | α |
| 181 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cyclopentyl | hydrogen | α | α |
| 182 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cycloheptyl | hydrogen | α | α |
| 183 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cyclopentylmethyl | hydrogen | α | α |
| 184 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | cyclohexylmethyl | hydrogen | α | α |
| 185 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | (R)-2-methylhexyl | hydrogen | α | α |
| 186 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | (S)-2-methylhexyl | hydrogen | α | α |
| 187 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | (R)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |
| 188 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ O | (S)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |
| 189 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ S(O) | cyclohexyl | methyl | α | α |
| 190 | β -Cl | C \equiv C | 0 | S(CH ₂) ₂ S(O) | cyclohexyl | hydrogen | α | α |

| | | | | | | | | |
|-----|--------------|-------------|---|------------------------|-----------------------------|----------|----------|----------|
| 191 | β -Cl | $C\equiv C$ | 0 | $S(O)_2(CH_2)_2S(O)_2$ | cyclohexyl | methyl | α | α |
| 192 | β -Cl | $C\equiv C$ | 0 | $S(O)_2(CH_2)_2S(O)_2$ | cyclohexyl | hydrogen | α | α |
| 193 | α -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cyclohexyl | methyl | α | α |
| 194 | α -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cyclohexyl | hydrogen | α | α |
| 195 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cyclopentyl | hydrogen | α | α |
| 196 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cycloheptyl | hydrogen | α | α |
| 197 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cyclopentylmethyl | hydrogen | α | α |
| 198 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | cyclohexylmethyl | hydrogen | α | α |
| 199 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (R)-2-methylhexyl | hydrogen | α | α |
| 200 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (S)-2-methylhexyl | hydrogen | α | α |
| 201 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (R)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |
| 202 | β -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (S)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |
| 203 | α -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (R)-2-methylhexyl | hydrogen | α | α |
| 204 | α -Cl | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (S)-2-methylhexyl | hydrogen | β | β |
| 205 | F | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (R)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |
| 206 | F | $C\equiv C$ | 0 | $S(CH_2)_2S$ | (S)-2,6-dimethyl-5-heptenyl | hydrogen | α | α |

199 200 201 202 203 204 205 206

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Pages 25, please delete the partial paragraph at the top of page 25 and replace it with the following new paragraph:

2930,2850,1735,1640,1470,1380,1255,830,770

Page 34, please delete the second full paragraph and replace it with the following new paragraph:

4-Thia-16,17,18,19,20-pentanol-15-cyclohexyl-13,14-didehydro-PGF₁β ethyl ester 11,15-bis(tert-butyl)dimethylsilyl ether)

¹H-NMR(CDCl₃,200MHz)δppm;

0.07(s,3H),0.08(s,6H),0.11(s,3H),0.82-1.98(m,19H), 0.88(s,9H),0.90(s,9H),1.27(t,J=7.1Hz,3H),2.17-2.86(m,5H), 2.60(t, J=6.8Hz,2H),3.93-4.28(m,2H),4.08(dd,J=6.4,1.8Hz,1H), 4.16(q,J=7.1Hz,2H)

IR(neat):

3458,2929,2854,1739,1639,1472,1371,1342,1250,1065,898, 837,777,670

Page 37, please delete the partial paragraph at the top of page 37 and replace it with the following new paragraph:

¹H-NMR(CDCl₃,200MHz)δppm

0.00(s,3H),0.01(s,3H),0.04(s,3H),0.07(s,3H),0.73-

1.89(m,1H),0.88(s,9H),0.90(s,9H),2.33(dd,J=17.9,6.3Hz,1H),2.65(dd,J=17.9,6.3Hz,1H),3.27-3.91(m,2H),4.07-

4.20(m,1H),5.25(dd,J=2.5,1.0Hz,1H),5.47(ddd,J=15.9,7.2,0.8Hz,1H),5.61(dd,J=15.5,5.1Hz,1H),6.12(dd,J=2.9,1.0Hz,1H)

IR(neat) cm⁻¹ ;

2954,2929,2856,1734,1642,1472,1451,1388,1361,1253,1113,

1071,1006,973,943,923,900,837,776,690

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Page 44, please delete the first full paragraph and replace it with the following new paragraph:

(1) Following the substantially same manner as in Example 1(2) using methyl 5-mercapto-3-oxapentanoate in place of methyl 5-mercaptopentanoate in Example 1(2), thereby 3-oxa-6-thia-16,17,18,19,20-pentano-15-cyclohexyl-13,14-didehydro-PGE₁ methyl ester 11,15-bis(tert-butyldimethylsilyl ether) was obtained.

¹H-NMR(CDCl₃,200MHz)δppm;

0.08(s,3H),0.09(s,3H),0.10(s,3H),0.13(s,3H),0.82-

1.92(m,11H),0.89(s,9H),0.90(s,9H),2.22(dd,J=18.0,6.4Hz, 1H),2.40-2.82(m,2H),2.77(t,J=6.7Hz,2H),

2.92(d, J=5.9Hz,2H), 3.09-3.20(m,1H),3.71(t,J=6.7Hz,2H), 3.76(s,3H),

4.08(dd,J=6.2,1.8Hz,1H),4.13(s,2H),4.28-4.42(m,1H)

IR(neat) cm⁻¹;

2930,2855,2236,1752,1472,1464,1451,1390,1362,1252,1208,

1138,1066,1006,940,898,837,779,670,579

Page 49, please delete the first full paragraph and replace it with the following new paragraph:

(4) Following the substantially same manner as in Example 1(5) using the compound obtained in the above (3), thereby the title compound was obtained.

¹H-NMR(CDCl₃,200MHz)δppm;

0.98-2.02(m,13H),2.22-2.47(m,3H), 2.62(ddd,J=10.1,6.4,1.8Hz,1H),2.75-2.99(m,6H),

3.28(s,2H),3.76(s,3H),4.10(m,2H),4.06-4.27(m,2H),4.32-4.47(m,1H)

IR(neat) cm⁻¹;

3400,2925,2852,2236,1734,1730,1436,1284,1203,1142,1083, 1008,893,833,773,692,578